Summary of Motor Vehicle Accidents in the Petroleum Industry for 1987

JUNE 1988

American Petroleum Institute
1220 L Street, Northwest
Washington, D.C. 20005

Summary of Motor Vehicle Accidents in the Petroleum Industry for 1987

Safety and Fire Protection Department

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Petroleum
Institute

SUMMARY OF MOTOR VEHICLE ACCIDENTS IN THE PETROLEUM INDUSTRY FOR 1987

The American Petroleum Institute's fifty-fifth survey of motor vehicle accidents in the petroleum industry represents the collective experience of 48 companies. Although this number does not reflect the counting of subsidiaries individually since they were not reported separately, the reported data does include the experience of subsidiaries in most cases.

Table I shows that 48 companies operated 22,751 vehicles which traveled 517,894,000 miles and were involved in 1710 accidents, indicating an average of 302,862 miles per vehicle accident in 1987.

Comparable figures for 1986 were: 30,431 vehicles, 684,813,000 miles traveled, 2,266 vehicle accidents, and an average of one vehicle accident per 302,212 miles traveled. Thus, in 1987 there was a frequency rate of 3.30 accidents per 1,000,000 vehicle miles, as compared to 3.31 in 1986; a decrease of 0.3 per cent.

Table II shows that 48 had an accident frequency rate of 7.5 accidents per 100 vehicles in 1987; a decrease of 1.4 per cent from the rate of 7.4 in 1986.

NOTE:

Total figures for "ALL FUNCTIONS" are greater than the sum of the corresponding figures for the individual functions because several companies did not provide figures for each function. Similarly, the totals for passenger vehicles, service vehicles, and product delivery trucks are greater than the sum of the corresponding figures for these three classes of vehicles because some company forms did not provide separate figures for each class. Company participation in the API motor vehicle accident survey is voluntary and fluctuates from year to year.

Additional copies of this survey may be obtained by contacting:

American Petroleum Institute
Publications & Distribution Section
1220 L Street, N.W.
Washington, D.C. 20005
(202) 682-8375

TABLE I - PETROLEUM INDUSTRY - MOTOR VEHICLE ACCIDENTS PER 1,000,000 MILES

THE NUMBER OF VEHICLE MILES TRAVELED BY DEPARTMENT FOR 1987

		PASSENGER VEHICLES REPORTED SEPARATELY			SERVICE VEHICLES REPORTED SEPARATELY				PROD. DELIVERY TRUCKS REPORTED SEPARATELY				COMBINATION OF ALL VEHICLES REPORTED			
Year	No. of Cos.	No. of Pass Veh	No. of Vehicle Miles Traveled (Thous)	No. of Acci-dents	No. of Accidents Per One Million Vehicle Miles	No. of Serv. Veh.	No. of Vehicle Miles Traveled (Thous)	No. of Acci-dents	No. of Accidents Per One Million Vehicle Miles	No. Prod. Deliv. Trucks	No. of Vehicle Miles Traveled (Thous)	No. of Acci-dents	No. of Accidents Per One Million Vehicle Miles	No. of All	No. of Vehicle Miles Traveled (Thous)	No. of Acci-dents	No. of Accidents Per One Million Vehicle Miles
								TOTAL									
1987	48	11,898	243,477	665	2.73	7,390	114,372	501	4.38	3,463	160,045	544	3.40	22,751	517,894	1,710	3.30
1986	47	20,607	343,014	1,217	3.55	7,519	121,015	475	3.93	2,937	160,382	621	3.87	30,431	684,813	2,266	3.31
1985	86	20,138	335,736	1,413	4.21	7,901	117,562	539	4.58	10,723	255,892	1,422	5.56	55,890	1,055,542	4,684	4.44
1984	91	17,910	414,188	1,465	3.54	8,270	129,778	436	3.36	9,207	355,852	1,461	4.11	56,639	1,451,457	5,757	3.97
								EXPLORATION									
1987	7	172	2,127	6	2.82	4	41	0	0.00	0	0	0	N/A	176	2,168	6	2.77
1986	10	668	12,374	38	3.07	30	412	0	0.00	117	2,613	8	3.06	815	15,399	46	2.99
1985	11	649	9,952	46	4.62	145	980	5	5.10	57	851	4	4.70	1,216	18,299	62	3.39
1984	15	756	10,941	59	5.39	140	2,611	8	3.0S	216	4,751	9	1.89	3,101	69,077	252	3.65
								PRODUCTION									
1987	13	4,430	82,962	231	2.78	1,046	17,381	29	1.67	575	7,564	25	3.31	6,051	107,907	285	2.64
1986	12	8,081	126,582	414	3.27	1,541	29,020	67	2.31	9	159	3	18.85	8,935	155,762	484	3.11
1985	21	5,810	105,598	305	2.89	2,694	39,398	157	3.98	1,006	29,515	96	3.25	13,235	250,230	763	3.05
1984	19	4,015	83,452	211	2.53	2,938	52,976	112	2.11	583	7,904	42	5.31	11,642	249,762	735	2.94
								EXPLORATION AND PRODUCTION-NOT SEPARATED[1]									
1987	6	1,035	19,466	67	3.44	180	3,125	10	3.20	99	1,094	1	0.91	1,314	23,685	78	3.29
1986	5	13	289	1	3.47	0	0	0	N/A	0	0	0	N/A	13	289	1	3.47
1985	11	4,934	86,742	349	4.02	487	8,444	37	4.38	801	11,691	61	5.22	9,944	168,864	595	3.52
1984	9	2,682	74,682	318	4.26	84	0	0	N/A	338	3,360	46	13.69	4,076	95,972	444	4.63
								E&P SUBTOTAL									
1987	20	5,637	104,555	304	2.91	1,230	20,547	39	1.90	674	8,658	26	3.00	7,541	133,760	369	2.76
1986	4	1,171	18,509	46	2.49	932	22,535	34	1.51	33	405	0	0.00	2,136	41,449	80	1.93
1985	0	0	0	0	N/A	0	0	0	N/A	0	0	0	N/A	0	0	0	N/A
1984	0	0	0	0	N/A	0	0	0	N/A	0	0	0	N/A	0	0	0	N/A
								GAS PROCESSING									
1987	14	748	13,736	26	1.89	63	857	0	0.00	0	0	0	N/A	811	14,593	26	1.78
1986	12	835	15,482	38	2.45	182	2,455	6	2.44	0	0	0	N/A	1,017	17,937	44	2.45
1985	14	216	2,516	11	4.37	232	1,469	7	4.77	98	183	15	81.82	1,050	14,356	54	3.76
1984	20	214	8,448	47	5.56	84	158	1	6.33	734	11,960	99	8.28	1,547	32,087	174	5.42
								MARKETING-WHOLESALE									
1987	11	2,043	54,571	157	2.88	281	4,681	26	5.55	902	67,213	339	5.04	3,226	126,465	522	4.13
1986	7	3,052	65,331	229	3.51	122	2,147	15	6.99	1,425	117,720	495	4.20	4,599	185,198	739	3.99
1985	21	3,027	67,065	292	4.35	196	1,803	15	8.32	1,919	95,674	678	7.09	8,057	264,332	1,435	5.43
1984	22	3,154	84,730	278	3.28	208	1,799	18	10.01	1,939	133,663	698	5.22	9,226	399,196	1,786	4.47
								MARKETING-RETAIL									
1987	7	234	4,665	15	3.22	788	9,920	75	7.56	766	9,986	73	7.31	1,788	24,571	163	6.63
1986	6	388	8,786	28	3.19	151	1,080	9	8.33	37	2,173	10	4.60	576	12,039	47	3.90
1985	13	333	5,140	53	10.31	729	9,262	83	8.96	943	9,583	117	12.21	3,531	45,015	463	10.29
1984	12	468	6,766	66	9.75	860	9,013	80	8.88	854	19,678	153	7.78	3,447	57,155	532	9.31

TABLE I - PETROLEUM INDUSTRY - MOTOR VEHICLE ACCIDENTS PER 1,000,000 MILES

THE NUMBER OF VEHICLE MILES TRAVELED BY DEPARTMENT FOR 1987

			PASSENGER VEHICLES REPORTED SEPARATELY			SERVICE VEHICLES REPORTED SEPARATELY				PROD. DELIVERY TRUCKS REPORTED SEPARATELY				COMBINATION OF ALL VEHICLES REPORTED		
Year	No. of Cos.	No. of Pass Veh	No. of Vehicle Miles Traveled (Thous)	No. of Acci-dents	No. of Accidents Per One Million Vehicle Miles	No. of Serv. Veh.	No. of Vehicle Miles Traveled (Thous)	No. of Acci-dents	No. of Accidents Per One Million Vehicle Miles	No. Prod. Deliv. Trucks	No. of Vehicle Miles Traveled (Thous)	No. of Acci-dents	No. of Accidents Per One Million Vehicle Miles	No. of All	No. of Vehicle Miles Traveled (Thous)	No. of Acci-dents	No. of Accidents Per One Million Vehicle Miles
							MARKETING-NOT SEPARATED[2]										
1987	2	11	286	1	3.50	0	0	0	N/A	6	125	1	8.00	17	411	2	4.87
1986	5	211	3,623	17	4.69	8	48	0	0.00	0	0	0	N/A	12	111	0	0.00
1985	2	929	22,406	70	3.12	0	0	0	N/A	408	18,865	104	5.51	1,337	41,271	174	4.22
1984	2	107	0	0	N/A	234	0	0	N/A	297	0	0	N/A	691	609	9	14.78
							MARKETING-SUBTOTAL										
1987	15	2,288	59,522	173	2.91	1,069	14,601	101	6.92	1,674	77,324	413	5.34	5,031	151,447	687	4.54
1986	2	1,178	32,330	105	3.25	273	3,227	24	7.44	467	40,554	222	5.47	1,918	76,111	351	4.61
1985	0	0	0	0	N/A	0	0	0	N/A	0	0	0	N/A	0	0	0	N/A
1984	0	0	0	0	N/A	0	0	0	N/A	0	0	0	N/A	0	0	0	N/A
							PIPELINE-LIQUID										
1987	6	170	2,254	2	0.89	148	2,274	9	3.96	56	3,358	9	2.68	374	7,886	20	2.54
1986	15	1,138	34,821	92	2.64	1,300	27,371	88	3.22	382	21,777	41	1.88	2,820	83,968	221	2.63
1985	22	1,519	31,186	87	2.79	991	21,397	51	2.38	1,105	33,117	121	3.65	4,429	103,153	323	3.13
1984	27	1,435	26,960	90	3.34	1,795	34,393	76	2.21	1,241	29,997	121	4.03	5,936	125,704	398	3.17
							PIPELINE-GAS										
1987	14	1,649	25,981	87	3.35	4,733	74,263	346	4.66	0	0	0	N/A	6,382	100,244	433	4.32
1986	14	1,962	32,839	110	3.35	3,683	52,986	268	5.06	895	15,277	55	3.60	6,540	101,102	433	4.28
1985	19	2,006	30,680	146	4.76	1,405	21,116	95	4.50	3,896	66,042	267	4.04	9,507	159,467	630	3.95
1984	17	1,573	56,979	90	1.58	1,215	20,607	81	3.93	2,112	133,099	144	1.08	7,745	267,822	501	1.87
							PIPELINE-NOT SEPARATED[3]										
1987	5	1,406	37,429	73	1.95	147	1,830	6	3.28	1,059	70,705	96	1.36	2,612	109,964	175	1.59
1986	7	667	14,974	33	2.20	3	37	0	0.00	0	0	0	N/A	1,258	27,823	83	2.98
1985	4	130	69	5	72.62	65	365	8	21.91	186	922	11	11.93	419	7,665	34	4.44
1984	4	4	4,425	7	1.58	0	0	0	N/A	46	1,036	2	1.93	88	15,521	26	1.68
							PIPELINE-SUBTOTAL										
1987	24	3,225	65,664	162	2.47	5,028	78,367	361	4.61	1,115	74,063	105	1.42	9,368	218,094	628	2.88
1986	3	423	12,239	24	1.96	69	1,910	5	2.62	337	17,683	34	1.92	829	31,832	63	1.98
1985	0	0	0	0	N/A	0	0	0	N/A	0	0	0	N/A	0	0	0	N/A
1984	0	0	0	0	N/A	0	0	0	N/A	0	0	0	N/A	0	0	0	N/A

[1] Exploration and Production data unable to be separated into Exploration or Production functions.
[2] Marketing data unable to be separated into Wholesale or Retail functions.
[3] Pipeline data unable to be separated into Liquid or Gas functions.

N/A - Function Not Applicable.

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THE NUMBER OF VEHICLE MILES TRAVELED BY DEPARTMENT FOR 1987

		PASSENGER VEHICLES REPORTED SEPARATELY			SERVICE VEHICLES REPORTED SEPARATELY				PROD. DELIVERY TRUCKS REPORTED SEPARATELY				COMBINATION OF ALL VEHICLES REPORTED			
Year	No. of Cos.	No. of Pass Veh	No. of Vehicle Miles Traveled (Thous)	No. of Acci- dents	No. of Accidents Per One Million Vehicle Miles	No. of Serv. Veh.	No. of Vehicle Miles Traveled (Thous)	No. of Acci- dents	No. of Accidents Per One Million Vehicle Miles	No. Prod. Deliv. Trucks	No. of Vehicle Miles Traveled (Thous)	No. of Acci- dents	No. of Accidents Per One Million Vehicle Miles	No. of All	No. of Vehicle Miles Traveled (Thous)	No. of Acci- dents	No. of Accidents Per One Million Vehicle Miles
							ALL FUNCTIONS										
Total	48	11,898	243,477	665	2.73	7,390	114,372	501	4.38	3,463	160,045	544	3.40	22,751	517,894	1,710	3.30
00001						4	40	0	0.00					4	40	0	0.00
00002		445	5,000	26	5.20	1,336	16,000	76	4.75					1,781	21,000	102	4.86
00003		2	25	0	0.00									2	25	0	0.00
00004		21	618	0	0.00	15	264	0	0.00	13	730	2	2.74	49	1,612	2	1.24
00005		2	15	1	66.67	15	105		0.00					17	120	1	8.33
00008										1	611	1	1.64	1	611	1	1.64
00010		10	227	0	0.00	10	198	0	0.00					20	425	0	0.00
00013		1,063	33,563	85	2.53					550	26,813	80	2.98	1,613	60,376	165	2.73
00020										5	133	1	7.52	5	133	1	7.52
00022		1	25	0	0.00									1	25	0	0.00
00026		3	90	0	0.00	3	15	0	0.00					6	105	0	0.00
00027		829	15,706	39	2.48	63	826	3	3.63					892	16,532	42	2.54
00028		7	175	0	0.00									7	175	0	0.00
00030		110	1,407	13	9.24	442	7,976	28	3.51					552	9,383	41	4.37
00031		432	8,531	20	2.34	1,097	21,635	116	5.36					1,529	30,166	136	4.51
00032		1,330	29,323	52	1.77					471	39,667	59	1.49	1,801	68,990	111	1.61
00034		9	127	0	0.00	4	10	0	0.00	7	630	0	0.00	20	767	0	0.00
00035		104	1,756	7	3.99	105	2,083	6	2.88					209	3,839	13	3.39
00036		4	30	0	0.00									4	30	0	0.00
00041		1,499	31,105	100	3.21	1,216	19,934	47	2.36	245	28,930	138	4.77	2,960	79,969	285	3.56
00048		4	91	0	0.00	7	139	0	0.00					11	230	0	0.00
00055		213	2,630	4	1.52	852	10,518	57	5.42					1,065	13,148	61	4.64
00057		1	11	0	0.00	3	13	0	0.00					4	24	0	0.00
00060		29	550	1	1.82	147	1,830	6	3.28					176	2,380	7	2.94
00061										2	99	0	0.00	2	99	0	0.00
00074		33	451	1	2.22	158	1,955	6	3.07					191	2,406	7	2.91
00075		2	12	0	0.00									2	12	0	0.00
00077		2	26	0	0.00	3	17	0	0.00					5	43	0	0.00
00083		10	255	1	3.92	38	789	3	3.80	36	1,998	7	3.50	84	3,042	11	3.62
00091		124	1,156	1	0.87	82	1,216	6	4.93					206	2,372	7	2.95
00093		5	74	0	0.00	15	146	1	6.85					20	220	1	4.55
00094		1	37	0	0.00	8	136	0	0.00					9	173	0	0.00
00095						118	1,838	11	5.98					118	1,838	11	5.98
00101		4	300	1	3.33	8	215	1	4.65	31	2,122	10	4.71	43	2,637	12	4.55

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THE NUMBER OF VEHICLE MILES TRAVELED BY DEPARTMENT FOR 1987

			PASSENGER VEHICLES REPORTED SEPARATELY			SERVICE VEHICLES REPORTED SEPARATELY				PROD. DELIVERY TRUCKS REPORTED SEPARATELY				COMBINATION OF ALL VEHICLES REPORTED			
Year	No. of Cos.	No. of Pass Veh	No. of Vehicle Miles Traveled (Thous)	No. of Acci-dents	No. of Accidents Per One Million Vehicle Miles	No. of Serv. Veh.	No. of Vehicle Miles Traveled (Thous)	No. of Acci-dents	No. of Accidents Per One Million Vehicle Miles	No. Prod. Deliv. Trucks	No. of Vehicle Miles Traveled (Thous)	No. of Acci-dents	No. of Accidents Per One Million Vehicle Miles	No. of All	No. of Vehicle Miles Traveled (Thous)	No. of Acci-dents	No. of Accidents Per One Million Vehicle Miles
							ALL FUNCTIONS (continued)										
00102		25	518	6	11.58	3	12	0	0.00					28	530	6	11.32
00103		1	100	0	0.00	4	240	0	0.00	15	1,216	4	3.29	20	1,556	4	2.57
00104		198	3,279	2	0.61	298	4,919	29	5.90					496	8,198	31	3.78
00108		431	8,173	23	2.81	130	2,289	16	6.99	166	5,723	28	4.89	727	16,185	67	4.14
00109		4,540	89,757	258	2.87					1,048	40,363	140	3.47	5,588	130,120	398	3.06
00117		6	86	0	0.00	149	1,234	1	0.81	163	1,574	19	12.07	318	2,894	20	6.91
00120		113	2,019	10	4.95	474	9,117	24	2.63					587	11,136	34	3.05
00125						78	1,403	5	3.56					78	1,403	5	3.56
00127		22	325	1	3.08					119	1,436	1	0.70	141	1,761	2	1.14
00141						478	7,000	58	8.29	591	8,000	54	6.75	1,069	15,000	112	7.47
00165		5	150	0	0.00									5	150	0	0.00
00173		28	336	3	8.93	25	200	0	0.00					53	536	3	5.60
00191		202	4,573	6	1.31									202	4,573	6	1.31
00201		28	845	4	4.73	2	60	1	16.67					30	905	5	5.52
							EXPLORATION										
Total	7	172	2,127	6	2.82	4	41	0	0.00	0	0	0	N/A	176	2,168	6	2.77
00022		1	25	0	0.00								N/A	1	25	0	0.00
00032		66	694	2	2.88								N/A	66	694	2	2.88
00036		2	15	0	0.00								N/A	2	15	0	0.00
00041		46	528	1	1.89	4	41	0	0.00				N/A	50	569	1	1.76
00102		5	137	0	0.00								N/A	5	137	0	0.00
00109		41	570	2	3.51								N/A	41	570	2	3.51
00191		11	158	1	6.33								N/A	11	158	1	6.33
							PRODUCTION										
Total	13	4,430	82,962	231	2.78	1,046	17,381	29	1.67	575	7,564	25	3.31	6,051	107,907	285	2.64
00008										1	611	1	1.64	1	611	1	1.64
00020										5	133	1	7.52	5	133	1	7.52
00032		690	13,881	23	1.66									690	13,881	23	1.66
00036		2	15	0	0.00									2	15	0	0.00
00041		760	14,229	52	3.65	881	15,830	22	1.39					1,641	30,059	74	2.46
00048		3	71	0	0.00	6	118	0	0.00					9	189	0	0.00
00074						66	96	2	20.83					66	96	2	20.83
00075		2	12	0	0.00									2	12	0	0.00
00102		20	381	6	15.75	3	12	0	0.00					23	393	6	15.27
00109		2,743	49,739	143	2.88					569	6,820	23	3.37	3,312	56,559	166	2.93
00125						65	1,125	5	4.44					65	1,125	5	4.44
00173		28	336	3	8.93	25	200	0	0.00					53	536	3	5.60

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THE NUMBER OF VEHICLE MILES TRAVELED BY DEPARTMENT FOR 1987

		PASSENGER VEHICLES REPORTED SEPARATELY			SERVICE VEHICLES REPORTED SEPARATELY				PROD. DELIVERY TRUCKS REPORTED SEPARATELY				COMBINATION OF ALL VEHICLES REPORTED			
Year	No. of Cos.	No. of Pass Veh	No. of Vehicle Miles Traveled (Thous)	No. of Acci-dents	No. of Accidents Per One Million Vehicle Miles	No. of Serv. Veh.	No. of Vehicle Miles Traveled (Thous)	No. of Acci-dents	No. of Accidents Per One Million Vehicle Miles	No. Prod. Deliv. Trucks	No. of Vehicle Miles Traveled (Thous)	No. of Acci-dents	No. of Accidents Per One Million Vehicle Miles	No. of All	No. of Vehicle Miles Traveled (Thous)	No. of Acci-dents	No. of Accidents Per One Million Vehicle Miles
PRODUCTION (continued)																	
00191		182	4,298	4	0.93									182	4,298	4	0.93
EXPLORATION AND PRODUCTION-NOT SEPARATED[1]																	
Total	6	1,035	19,466	67	3.44	180	3,125	10	3.20	99	1,094	1	0.91	1,314	23,685	78	3.29
00013		121	2,395	18	7.52												
00027		565	11,454	35	3.06	63	826	3	3.63	26	425	1	2.35	147	2,820	19	6.74
00035		104	1,756	7	3.99	105	2,083	6	2.88					628	12,280	38	3.09
00095						12	216	1	4.63					209	3,839	13	3.39
00108		236	3,743	7	1.87									12	216	1	4.63
00127		9	118	0	0.00					73	669	0	0.00	236	3,743	7	1.87
														82	787	0	0.00
GAS PROCESSING																	
Total	14	748	13,736	26	1.89	63	857	0	0.00	0	0	0	N/A	811	14,593	26	1.78
00001						4	40	0	0.00				N/A	4	40	0	0.00
00005		1	12	1	83.33	5	33		0.00				N/A	6	45	1	22.22
00027		264	4,252	4	0.94								N/A	264	4,252	4	0.94
00032		148	3,353	6	1.79								N/A	148	3,353	6	1.79
00041		37	482	1	2.07	33	430	0	0.00				N/A	70	912	1	1.10
00048		1	20	0	0.00	1	21	0	0.00				N/A	2	41	0	0.00
00057		1	11	0	0.00	3	13	0	0.00				N/A	4	24	0	0.00
00077		2	26	0	0.00	3	17	0	0.00				N/A	5	43	0	0.00
00101						1	25	0	0.00				N/A	1	25	0	0.00
00108		32	635	4	6.30								N/A	32	635	4	6.30
00109		251	4,763	9	1.89								N/A	251	4,763	9	1.89
00125						13	278	0	0.00				N/A	13	278	0	0.00
00191		9	117	1	8.55								N/A	9	117	1	8.55
00201		2	65	0	0.00								N/A	2	65	0	0.00
MARKETING-WHOLESALE																	
Total	11	2,043	54,571	157	2.88	281	4,681	26	5.55	902	67,213	339	5.04	3,226	126,465	522	4.13
00003		2	25	0	0.00									2	25	0	0.00
00013		582	19,255	53	2.75					233	11,957	66	5.52	815	31,212	119	3.81
00026		3	90	0	0.00	3	15	0	0.00					6	105	0	0.00
00028		7	175	0	0.00									7	175	0	0.00
00032		36	1,047	3	2.87									36	1,047	3	2.87
00041		592	14,333	40	2.79	142	2,102	10	4.76	245	28,930	138	4.77	979	45,365	188	4.14
00061										2	99	0	0.00	2	99	0	0.00
00101		2	150	0	0.00	2	35	0	0.00	25	1,922	10	5.20	29	2,107	10	4.75
00103		1	100	0	0.00	4	240	0	0.00	15	1,216	4	3.29	20	1,556	4	2.57
00108		68	1,442	4	2.77	130	2,289	16	6.99	166	5,723	28	4.89	364	9,454	48	5.08

TABLE I - PETROLEUM INDUSTRY - MOTOR VEHICLE ACCIDENTS PER 1,000,000 MILES

THE NUMBER OF VEHICLE MILES TRAVELED BY DEPARTMENT FOR 1987

		PASSENGER VEHICLES REPORTED SEPARATELY			SERVICE VEHICLES REPORTED SEPARATELY				PROD. DELIVERY TRUCKS REPORTED SEPARATELY				COMBINATION OF ALL VEHICLES REPORTED			
Year	No. of Cos.	No. of Pass Veh	No. of Vehicle Miles Traveled (Thous)	No. of Acci-dents	No. of Accidents Per One Million Vehicle Miles	No. of Serv. Veh.	No. of Vehicle Miles Traveled (Thous)	No. of Acci-dents	No. of Accidents Per One Million Vehicle Miles	No. Prod. Deliv. Trucks	No. of Vehicle Miles Traveled (Thous)	No. of Acci-dents	No. of Accidents Per One Million Vehicle Miles	No. of All	No. of Vehicle Miles Traveled (Thous)	No. of Acci-dents	No. of Accidents Per One Million Vehicle Miles
							MARKETING-WHOLESALE (continued)										
00109		750	17,954	57	3.17					216	17,366	93	5.36	966	35,320	150	4.25
							MARKETING-RETAIL										
Total	7	234	4,665	15	3.22	788	9,920	75	7.56	766	9,986	73	7.31	1,788	24,571	163	6.63
00013		6	135	0	0.00					6	212	0	0.00	12	347	0	0.00
00032		129	2,049	7	3.42									129	2,049	7	3.42
00041						156	1,531	15	9.80					156	1,531	15	9.80
00101		2	150	1	6.67	5	155	1	6.45	6	200	0	0.00	13	505	2	3.96
00108		91	2,245	7	3.12									91	2,245	7	3.12
00117		6	86	0	0.00	149	1,234	1	0.81	163	1,574	19	12.07	318	2,894	20	6.91
00141						478	7,000	58	8.29	591	8,000	54	6.75	1,069	15,000	112	7.47
							MARKETING-NOT SEPARATED[2]										
Total	2	11	286	1	3.50	0	0	0	N/A	6	125	1	8.00	17	411	2	4.87
00127		6	136	1	7.35				N/A	6	125	1	8.00	12	261	2	7.66
00165		5	150	0	0.00				N/A					5	150	0	0.00
							PIPELINE-LIQUID										
Total	6	170	2,254	2	0.89	148	2,274	9	3.96	56	3,358	9	2.68	374	7,886	20	2.54
00004		21	618	0	0.00	15	264	0	0.00	13	730	2	2.74	49	1,612	2	1.24
00034		9	127	0	0.00	4	10	0	0.00	7	630	0	0.00	20	767	0	0.00
00083		7	171	0	0.00	32	638	2	3.13	36	1,998	7	3.50	75	2,807	9	3.21
00091		124	1,156	1	0.87	82	1,216	6	4.93					206	2,372	7	2.95
00093		5	74	0	0.00	15	146	1	6.85					20	220	1	4.55
00108		4	108	1	9.26									4	108	1	9.26
							PIPELINE-GAS										
Total	14	1,649	25,981	87	3.35	4,733	74,263	346	4.66	0	0	0	N/A	6,382	100,244	433	4.32
00002		445	5,000	26	5.20	1,336	16,000	76	4.75				N/A	1,781	21,000	102	4.86
00005		1	3		0.00	10	72		0.00				N/A	11	75		0.00
00010		10	227	0	0.00	10	198	0	0.00				N/A	20	425	0	0.00
00030		110	1,407	13	9.24	442	7,976	28	3.51				N/A	552	9,383	41	4.37
00031		432	8,531	20	2.34	1,097	21,635	116	5.36				N/A	1,529	30,166	136	4.51
00041		64	1,533	6	3.91								N/A	64	1,533	6	3.91
00055		213	2,630	4	1.52	852	10,518	57	5.42				N/A	1,065	13,148	61	4.64
00074		33	451	1	2.22	92	1,859	4	2.15				N/A	125	2,310	5	2.16
00083		3	84	1	11.90	6	151	1	6.62				N/A	9	235	2	8.51
00094		1	37	0	0.00	8	136	0	0.00				N/A	9	173	0	0.00
00095						106	1,622	10	6.17				N/A	106	1,622	10	6.17
00104		198	3,279	2	0.61	298	4,919	29	5.90				N/A	496	8,198	31	3.78
00120		113	2,019	10	4.95	474	9,117	24	2.63				N/A	587	11,136	34	3.05

TABLE I - PETROLEUM INDUSTRY - MOTOR VEHICLE ACCIDENTS PER 1,000,000 MILES

THE NUMBER OF VEHICLE MILES TRAVELED BY DEPARTMENT FOR 1987

		PASSENGER VEHICLES REPORTED SEPARATELY			SERVICE VEHICLES REPORTED SEPARATELY				PROD. DELIVERY TRUCKS REPORTED SEPARATELY				COMBINATION OF ALL VEHICLES REPORTED			
Year	No. of Cos.	No. of Pass Veh	No. of Vehicle Miles Traveled (Thous)	No. of Acci-dents	No. of Accidents Per One Million Vehicle Miles	No. of Serv. Veh.	No. of Vehicle Miles Traveled (Thous)	No. of Acci-dents	No. of Accidents Per One Million Vehicle Miles	No. Prod. Deliv. Trucks	No. of Vehicle Miles Traveled (Thous)	No. of Acci-dents	No. of Accidents Per One Million Vehicle Miles	No. of All	No. of Vehicle Miles Traveled (Thous)	No. of Acci-dents	No. of Accidents Per One Million Vehicle Miles
PIPELINE-GAS (continued)																	
00201		26	780	4	5.13	2	60	1	16.67				N/A	28	840	5	5.95
PIPELINE-NOT SEPARATED[3]																	
Total	5	1,406	37,429	73	1.95	147	1,830	6	3.28	1,059	70,705	96	1.36	2,612	109,964	175	1.59
00013		354	11,778	14	1.19					285	14,219	13	0.91	639	25,997	27	1.04
00032		261	8,299	11	1.33					471	39,667	59	1.49	732	47,966	70	1.46
00060		29	550	1	1.82	147	1,830	6	3.28					176	2,380	7	2.94
00109		755	16,731	47	2.81					263	16,177	24	1.48	1,018	32,908	71	2.16
00127		7	71	0	0.00					40	642	0	0.00	47	713	0	0.00

TABLE II - PETROLEUM INDUSTRY - MOTOR VEHICLE ACCIDENTS PER 100 VEHICLES

BY DEPARTMENTS FOR 1987

Year	No. of Cos.	PASSENGER VEHICLES REPORTED SEPARATELY			SERVICE VEHICLES REPORTED SEPARATELY			PROD. DELIV. TRUCKS REPORTED SEPARATELY			COMBINATION OF ALL VEHICLES REPORTED		
		No. of Pass. Veh	No. of Accidents	No. of Accidents Per 100 Vehicles	No. of Service Veh.	No. of Accidents	No. of Accidents Per 100 Vehicles	No. of Prod. Deliv. Trucks	No. of Accidents	No. of Accidents Per 100 Vehicles	No. of All	No. of Accidents	No. of Accidents Per 100 Vehicles
						TOTAL							
1987	48	11,898	665	5.59	7,390	501	6.78	3,463	544	15.71	22,751	1,710	7.52
1986	47	20,607	1,217	5.91	7,519	475	6.32	2,937	621	21.14	30,431	2,266	7.45
1985	86	20,138	1,413	7.02	7,901	539	6.82	10,723	1,422	13.26	55,890	4,684	8.38
1984	91	17,910	1,465	8.18	8,270	436	5.27	9,207	1,461	15.87	56,639	5,757	10.16
						EXPLORATION							
1987	7	172	6	3.49	4	0	0.00	0	0	N/A	176	6	3.41
1986	10	668	38	5.69	30	0	0.00	117	8	6.84	815	46	5.64
1985	11	649	46	7.09	145	5	3.45	57	4	7.02	1,216	62	5.10
1984	15	756	59	7.80	140	8	5.71	216	9	4.17	3,101	252	8.13
						PRODUCTION							
1987	13	4,430	231	5.21	1,046	29	2.77	575	25	4.35	6,051	285	4.71
1986	12	8,081	414	5.12	1,541	67	4.35	9	3	33.33	8,935	484	5.42
1985	21	5,810	305	5.25	2,694	157	5.83	1,006	96	9.54	13,235	763	5.77
1984	19	4,015	211	5.26	2,938	112	3.81	583	42	7.20	11,642	735	6.31
						EXPLORATION AND PRODUCTION-NOT SEPARATED[1]							
1987	6	1,035	67	6.47	180	10	5.56	99	1	1.01	1,314	78	5.94
1986	5	13	1	7.69	0	0	N/A	0	0	N/A	13	1	7.69
1985	11	4,934	349	7.07	487	37	7.60	801	61	7.62	9,944	595	5.98
1984	9	2,682	318	11.86	84	0	0.00	338	46	13.61	4,076	444	10.89
						E&P SUBTOTAL							
1987	20	5,637	304	5.39	1,230	39	3.17	674	26	3.86	7,541	369	4.89
1986	4	1,171	46	3.93	932	34	3.65	33	0	0.00	2,136	80	3.75
1985	0	0	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A
1984	0	0	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A
						GAS PROCESSING							
1987	14	748	26	3.48	63	0	0.00	0	0	N/A	811	26	3.21
1986	12	835	38	4.55	182	6	3.30	0	0	N/A	1,017	44	4.33
1985	14	216	11	5.09	232	7	3.02	98	15	15.31	1,050	54	5.14
1984	20	214	47	21.96	84	1	1.19	734	99	13.49	1,547	174	11.25
						MARKETING-WHOLESALE							
1987	11	2,043	157	7.68	281	26	9.25	902	339	37.58	3,226	522	16.18
1986	7	3,052	229	7.50	122	15	12.30	1,425	495	34.74	4,599	739	16.07
1985	21	3,027	292	9.65	196	15	7.65	1,919	678	35.33	8,057	1,435	17.81
1984	22	3,154	278	8.81	208	18	8.65	1,939	698	36.00	9,226	1,786	19.36
						MARKETING-RETAIL							
1987	7	234	15	6.41	788	75	9.52	766	73	9.53	1,788	163	9.12
1986	6	388	28	7.22	151	9	5.96	37	10	27.03	576	47	8.16
1985	13	333	53	15.92	729	83	11.39	943	117	12.41	3,531	463	13.11
1984	12	468	66	14.10	860	80	9.30	854	153	17.92	3,447	532	15.43
						MARKETING-NOT SEPARATED[2]							
1987	2	11	1	9.09	0	0	N/A	6	1	16.67	17	2	11.76
1986	5	211	17	8.06	8	0	0.00	0	0	N/A	12	0	0.00
1985	2	929	70	7.53	0	0	N/A	408	104	25.49	1,337	174	13.01
1984	2	107	0	0.00	234	0	0.00	297	0	0.00	691	9	1.30

TABLE II - PETROLEUM INDUSTRY - MOTOR VEHICLE ACCIDENTS PER 100 VEHICLES

BY DEPARTMENTS FOR 1987

Year	No. of Cos.	PASSENGER VEHICLES REPORTED SEPARATELY			SERVICE VEHICLES REPORTED SEPARATELY			PROD. DELIV. TRUCKS REPORTED SEPARATELY			COMBINATION OF ALL VEHICLES REPORTED		
		No. of Pass. Veh	No. of Accidents	No. of Accidents Per 100 Vehicles	No. of Service Veh.	No. of Accidents	No. of Accidents Per 100 Vehicles	No. of Prod. Deliv. Trucks	No. of Accidents	No. of Accidents Per 100 Vehicles	No. of All	No. of Accidents	No. of Accidents Per 100 Vehicles
MARKETING-SUBTOTAL													
1987	15	2,288	173	7.56	1,069	101	9.45	1,674	413	24.67	5,031	687	13.66
1986	2	1,178	105	8.91	273	24	8.79	467	222	47.54	1,918	351	18.30
1985	0	0	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A
1984	0	0	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A
PIPELINE-LIQUID													
1987	6	170	2	1.18	148	9	6.08	56	9	16.07	374	20	5.35
1986	15	1,138	92	8.08	1,300	88	6.77	382	41	10.73	2,820	221	7.84
1985	22	1,519	87	5.73	991	51	5.15	1,105	121	10.95	4,429	323	7.29
1984	27	1,435	90	6.27	1,795	76	4.23	1,241	121	9.75	5,936	398	6.70
PIPELINE-GAS													
1987	14	1,649	87	5.28	4,733	346	7.31	0	0	N/A	6,382	433	6.78
1986	14	1,962	110	5.61	3,683	268	7.28	895	55	6.15	6,540	433	6.62
1985	19	2,006	146	7.28	1,405	95	6.76	3,896	267	6.85	9,507	630	6.63
1984	17	1,573	90	5.72	1,215	81	6.67	2,112	144	6.82	7,745	501	6.47
PIPELINE-NOT SEPARATED[3]													
1987	5	1,406	73	5.19	147	6	4.08	1,059	96	9.07	2,612	175	6.70
1986	7	667	33	4.95	3	0	0.00	0	0	N/A	1,258	83	6.60
1985	4	130	5	3.85	65	8	12.31	186	11	5.91	419	34	8.11
1984	4	4	7	175.00	0	0	N/A	46	2	4.35	88	26	29.55
PIPELINE-SUBTOTAL													
1987	24	3,225	162	5.02	5,028	361	7.18	1,115	105	9.42	9,368	628	6.70
1986	3	423	24	5.67	69	5	7.25	337	34	10.09	829	63	7.60
1985	0	0	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A
1984	0	0	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A

[1]Exploration and Production data unable to be separated into Exploration or Production functions.
[2]Marketing data unable to be separated into Wholesale or Retail functions.
[3]Pipeline data unable to be separated into Liquid or Gas functions.

N/A - Function Not Applicable.

TABLE II - PETROLEUM INDUSTRY - MOTOR VEHICLE ACCIDENTS PER 100 VEHICLES

BY DEPARTMENTS FOR 1987

		PASSENGER VEHICLES REPORTED SEPARATELY			SERVICE VEHICLES REPORTED SEPARATELY			PROD. DELIV. TRUCKS REPORTED SEPARATELY			COMBINATION OF ALL VEHICLES REPORTED		
Year	No. of Cos.	No. of Pass. Veh	No. of Accidents	No. of Accidents Per 100 Vehicles	No. of Service Veh.	No. of Accidents	No. of Accidents Per 100 Vehicles	No. of Prod. Deliv. Trucks	No. of Accidents	No. of Accidents Per 100 Vehicles	No. of All	No. of Accidents	No. of Accidents Per 100 Vehicles
		ALL FUNCTIONS											
Total	48	11,898	665	5.59	7,390	501	6.78	3,463	544	15.71	22,751	1,710	7.52
00001					4	0	0.00				4	0	0.00
00002		445	26	5.20	1,336	76	4.75				1,781	102	4.86
00003		2	0	0.00							2	0	0.00
00004		21	0	0.00	15	0	0.00	13	2	2.74	49	2	1.24
00005		2	1	66.67	15		0.00				17	1	8.33
00008								1	1	1.64	1	1	1.64
00010		10	0	0.00	10	0	0.00				20	0	0.00
00013		1,063	85	2.53				550	80	2.98	1,613	165	2.73
00020								5	1	7.52	5	1	7.52
00022		1	0	0.00							1	0	0.00
00026		3	0	0.00	3	0	0.00				6	0	0.00
00027		829	39	2.48	63	3	3.63				892	42	2.54
00028		7	0	0.00							7	0	0.00
00030		110	13	9.24	442	28	3.51				552	41	4.37
00031		432	20	2.34	1,097	116	5.36				1,529	136	4.51
00032		1,330	52	1.77				471	59	1.49	1,801	111	1.61
00034		9	0	0.00	4	0	0.00	7	0	0.00	20	0	0.00
00035		104	7	3.99	105	6	2.88				209	13	3.39
00036		4	0	0.00							4	0	0.00
00041		1,499	100	3.21	1,216	47	2.36	245	138	4.77	2,960	285	3.56
00048		4	0	0.00	7	0	0.00				11	0	0.00
00055		213	4	1.52	852	57	5.42				1,065	61	4.64
00057		1	0	0.00	3	0	0.00				4	0	0.00
00060		29	1	1.82	147	6	3.28				176	7	2.94
00061								2	0	0.00	2	0	0.00
00074		33	1	2.22	158	6	3.07				191	7	2.91
00075		2	0	0.00							2	0	0.00
00077		2	0	0.00	3	0	0.00				5	0	0.00
00083		10	1	3.92	38	3	3.80	36	7	3.50	84	11	3.62

TABLE II - PETROLEUM INDUSTRY - MOTOR VEHICLE ACCIDENTS PER 100 VEHICLES

BY DEPARTMENTS FOR 1987

Year	No. of Cos.	PASSENGER VEHICLES REPORTED SEPARATELY			SERVICE VEHICLES REPORTED SEPARATELY			PROD. DELIV. TRUCKS REPORTED SEPARATELY			COMBINATION OF ALL VEHICLES REPORTED		
		No. of Pass. Veh	No. of Accidents	No. of Accidents Per 100 Vehicles	No. of Service Veh.	No. of Accidents	No. of Accidents Per 100 Vehicles	No. of Prod. Deliv. Trucks	No. of Accidents	No. of Accidents Per 100 Vehicles	No. of All	No. of Accidents	No. of Accidents Per 100 Vehicles
ALL FUNCTIONS (continued)													
00091		124	1	0.87	82	6	4.93				206	7	2.95
00093		5	0	0.00	15	1	6.85				20	1	4.55
00094		1	0	0.00	8	0	0.00				9	0	0.00
00095					118	11	5.98				118	11	5.98
00101		4	1	3.33	8	1	4.65	31	10	4.71	43	12	4.55
00102		25	6	11.58	3	0	0.00				28	6	11.32
00103		1	0	0.00	4	0	0.00	15	4	3.29	20	4	2.57
00104		198	2	0.61	298	29	5.90				496	31	3.78
00108		431	23	2.81	130	16	6.99	166	28	4.89	727	67	4.14
00109		4,540	258	2.87				1,048	140	3.47	5,588	398	3.06
00117		6	0	0.00	149	1	0.81	163	19	12.07	318	20	6.91
00120		113	10	4.95	474	24	2.63				587	34	3.05
00125					78	5	3.56				78	5	3.56
00127		22	1	3.08				119	1	0.70	141	2	1.14
00141					478	58	8.29	591	54	6.75	1,069	112	7.47
00165		5	0	0.00							5	0	0.00
00173		28	3	8.93	25	0	0.00				53	3	5.60
00191		202	6	1.31							202	6	1.31
00201		28	4	4.73	2	1	16.67				30	5	5.52
EXPLORATION													
Total	7	172	6	3.49	4	0	0.00	0	0	N/A	176	6	3.41
00022		1	0	0.00						N/A	1	0	0.00
00032		66	2	2.88						N/A	66	2	2.88
00036		2	0	0.00						N/A	2	0	0.00
00041		46	1	1.89	4	0	0.00			N/A	50	1	1.76
00102		5	0	0.00						N/A	5	0	0.00
00109		41	2	3.51						N/A	41	2	3.51
00191		11	1	6.33						N/A	11	1	6.33
PRODUCTION													
Total	13	4,430	231	5.21	1,046	29	2.77	575	25	4.35	6,051	285	4.71
00008								1	1	1.64	1	1	1.64
00020								5	1	7.52	5	1	7.52

TABLE II - PETROLEUM INDUSTRY - MOTOR VEHICLE ACCIDENTS PER 100 VEHICLES

BY DEPARTMENTS FOR 1987

		PASSENGER VEHICLES REPORTED SEPARATELY			SERVICE VEHICLES REPORTED SEPARATELY			PROD. DELIV. TRUCKS REPORTED SEPARATELY			COMBINATION OF ALL VEHICLES REPORTED		
Year	No. of Cos.	No. of Pass. Veh	No. of Accidents	No. of Accidents Per 100 Vehicles	No. of Service Veh.	No. of Accidents	No. of Accidents Per 100 Vehicles	No. of Prod. Deliv. Trucks	No. of Accidents	No. of Accidents Per 100 Vehicles	No. of All	No. of Accidents	No. of Accidents Per 100 Vehicles
PRODUCTION (continued)													
00032		690	23	1.66							690	23	1.66
00036		2	0	0.00							2	0	0.00
00041		760	52	3.65	881	22	1.39				1,641	74	2.46
00048		3	0	0.00	6	0	0.00				9	0	0.00
00074					66	2	20.83				66	2	20.83
00075		2	0	0.00							2	0	0.00
00102		20	6	15.75	3	0	0.00				23	6	15.27
00109		2,743	143	2.88				569	23	3.37	3,312	166	2.93
00125					65	5	4.44				65	5	4.44
00173		28	3	8.93	25	0	0.00				53	3	5.60
00191		182	4	0.93							182	4	0.93
EXPLORATION AND PRODUCTION-NOT SEPARATED[1]													
Total	6	1,035	67	6.47	180	10	5.56	99	1	1.01	1,314	78	5.94
00013		121	18	7.52				26	1	2.35	147	19	6.74
00027		565	35	3.06	63	3	3.63				628	38	3.09
00035		104	7	3.99	105	6	2.88				209	13	3.39
00095					12	1	4.63				12	1	4.63
00108		236	7	1.87							236	7	1.87
00127		9	0	0.00				73	0	0.00	82	0	0.00
GAS PROCESSING													
Total	14	748	26	3.48	63	0	0.00	0	0	N/A	811	26	3.21
00001					4	0	0.00			N/A	4	0	0.00
00005		1	1	83.33	5		0.00			N/A	6	1	22.22
00027		264	4	0.94						N/A	264	4	0.94
00032		148	6	1.79						N/A	148	6	1.79
00041		37	1	2.07	33	0	0.00			N/A	70	1	1.10
00048		1	0	0.00	1	0	0.00			N/A	2	0	0.00
00057		1	0	0.00	3	0	0.00			N/A	4	0	0.00
00077		2	0	0.00	3	0	0.00			N/A	5	0	0.00
00101					1	0	0.00			N/A	1	0	0.00
00108		32	4	6.30						N/A	32	4	6.30
00109		251	9	1.89						N/A	251	9	1.89

TABLE II - PETROLEUM INDUSTRY - MOTOR VEHICLE ACCIDENTS PER 100 VEHICLES

BY DEPARTMENTS FOR 1987

Year	No. of Cos.	PASSENGER VEHICLES REPORTED SEPARATELY			SERVICE VEHICLES REPORTED SEPARATELY			PROD. DELIV. TRUCKS REPORTED SEPARATELY			COMBINATION OF ALL VEHICLES REPORTED		
		No. of Pass. Veh	No. of Accidents	No. of Accidents Per 100 Vehicles	No. of Service Veh.	No. of Accidents	No. of Accidents Per 100 Vehicles	No. of Prod. Deliv. Trucks	No. of Accidents	No. of Accidents Per 100 Vehicles	No. of All	No. of Accidents	No. of Accidents Per 100 Vehicles
GAS PROCESSING (continued)													
00125					13	0	0.00			N/A	13	0	0.00
00191		9	1	8.55						N/A	9	1	8.55
00201		2	0	0.00						N/A	2	0	0.00
MARKETING-WHOLESALE													
Total	11	2,043	157	7.68	281	26	9.25	902	339	37.58	3,226	522	16.18
00003		2	0	0.00							2	0	0.00
00013		582	53	2.75				233	66	5.52	815	119	3.81
00026		3	0	0.00	3	0	0.00				6	0	0.00
00028		7	0	0.00							7	0	0.00
00032		36	3	2.87							36	3	2.87
00041		592	40	2.79	142	10	4.76	245	138	4.77	979	188	4.14
00061								2	0	0.00	2	0	0.00
00101		2	0	0.00	2	0	0.00	25	10	5.20	29	10	4.75
00103		1	0	0.00	4	0	0.00	15	4	3.29	20	4	2.57
00108		68	4	2.77	130	16	6.99	166	28	4.89	364	48	5.08
00109		750	57	3.17				216	93	5.36	966	150	4.25
MARKETING-RETAIL													
Total	7	234	15	6.41	788	75	9.52	766	73	9.53	1,788	163	9.12
00013		6	0	0.00				6	0	0.00	12	0	0.00
00032		129	7	3.42							129	7	3.42
00041					156	15	9.80				156	15	9.80
00101		2	1	6.67	5	1	6.45	6	0	0.00	13	2	3.96
00108		91	7	3.12							91	7	3.12
00117		6	0	0.00	149	1	0.81	163	19	12.07	318	20	6.91
00141					478	58	8.29	591	54	6.75	1,069	112	7.47
MARKETING-NOT SEPARATED[2]													
Total	2	11	1	9.09	0	0	N/A	6	1	16.67	17	2	11.76
00127		6	1	7.35			N/A	6	1	8.00	12	2	7.66
00165		5	0	0.00			N/A				5	0	0.00
PIPELINE-LIQUID													
Total	6	170	2	1.18	148	9	6.08	56	9	16.07	374	20	5.35
00004		21	0	0.00	15	0	0.00	13	2	2.74	49	2	1.24

TABLE II - PETROLEUM INDUSTRY - MOTOR VEHICLE ACCIDENTS PER 100 VEHICLES

BY DEPARTMENTS FOR 1987

		PASSENGER VEHICLES REPORTED SEPARATELY			SERVICE VEHICLES REPORTED SEPARATELY			PROD. DELIV. TRUCKS REPORTED SEPARATELY			COMBINATION OF ALL VEHICLES REPORTED		
Year	No. of Cos.	No. of Pass. Veh	No. of Accidents	No. of Accidents Per 100 Vehicles	No. of Service Veh.	No. of Accidents	No. of Accidents Per 100 Vehicles	No. of Prod. Deliv. Trucks	No. of Accidents	No. of Accidents Per 100 Vehicles	No. of All	No. of Accidents	No. of Accidents Per 100 Vehicles
PIPELINE-LIQUID (continued)													
00034		9	0	0.00	4	0	0.00	7	0	0.00	20	0	0.00
00083		7	0	0.00	32	2	3.13	36	7	3.50	75	9	3.21
00091		124	1	0.87	82	6	4.93				206	7	2.95
00093		5	0	0.00	15	1	6.85				20	1	4.55
00108		4	1	9.26							4	1	9.26
PIPELINE-GAS													
Total	14	1,649	87	5.28	4,733	346	7.31	0	0	N/A	6,382	433	6.78
00002		445	26	5.20	1,336	76	4.75			N/A	1,781	102	4.86
00005		1		0.00	10		0.00			N/A	11		0.00
00010		10	0	0.00	10	0	0.00			N/A	20	0	0.00
00030		110	13	9.24	442	28	3.51			N/A	552	41	4.37
00031		432	20	2.34	1,097	116	5.36			N/A	1,529	136	4.51
00041		64	6	3.91						N/A	64	6	3.91
00055		213	4	1.52	852	57	5.42			N/A	1,065	61	4.64
00074		33	1	2.22	92	4	2.15			N/A	125	5	2.16
00083		3	1	11.90	6	1	6.62			N/A	9	2	8.51
00094		1	0	0.00	8	0	0.00			N/A	9	0	0.00
00095					106	10	6.17			N/A	106	10	6.17
00104		198	2	0.61	298	29	5.90			N/A	496	31	3.78
00120		113	10	4.95	474	24	2.63			N/A	587	34	3.05
00201		26	4	5.13	2	1	16.67			N/A	28	5	5.95
PIPELINE-NOT SEPARATED[3]													
Total	5	1,406	73	5.19	147	6	4.08	1,059	96	9.07	2,612	175	6.70
00013		354	14	1.19				285	13	0.91	639	27	1.04
00032		261	11	1.33				471	59	1.49	732	70	1.46
00060		29	1	1.82	147	6	3.28				176	7	2.94
00109		755	47	2.81				263	24	1.48	1,018	71	2.16
00127		7	0	0.00				40	0	0.00	47	0	0.00

LIST OF RESPONDENTS — 1987 MOTOR VEHICLE ACCIDENT REPORT

	KEY	COMPANY
1.	141	Agway Energy Products
2.	10	Alabama - Tenn. Natural Gas Co.
3.	13	Ashland Petroleum Co.
4.	191	BHP Petroleum (A)
5.*	15	BP North America Petroleum Inc.
6.	183	Caddo Pine Island Corp.
7.	20	Calcasieu Refining Co.
8.	22	Celsius Energy Co.
9.*	24	Chevron USA Inc.
10.	26	Cibro Petroleum Products Inc.
11.	27	Cities Service Oil & Gas Corp.
12.	28	Coastal Oil Co.
13.	30	Colorado Interstate Gas Co.
14.	31	Columbia Gas Transmission Corp.
15.	32	CONOCO Inc.
16.	34	Cross Oil & Refining Co.
17.	36	E. E. Fogelson
18.	1	Enerfin Gas Processing Corp.
19.	35	Enserch Exploration Inc.
20.	41	Exxon Company USA Inc.
21.	4	Farm Bureau Oil Co.
22.	48	Hewit & Dougherty
23.	54	KN Energy Inc.

LIST OF RESPONDENTS (continued)

	KEY	COMPANY
24.*	55	Kaneb Pipe Line Co.
25.	57	Kentucky Hydrocarbon Co.
26.	2	KPL Gas Service
27.	60	Lakehead Pipe Line Co.
28.	61	Lakeside Refining Co.
29.	173	Lion Oil Co.
30.	201	Llano Inc.
31.	5	Lomita Gasoline Co.
32.*	64	Lone Star Gas Co.
33.	145	Mobil Research & Development Corp.
34.	74	Mountain Fuel Resources Inc.
35*	75	Murphy Oil USA Inc.
36.	77	National Helium Corp.
37.	83	Ohio Oil Gathering Corp.
38.	8	Pennzoil Products Co. - Roosevelt Refinery
39.*	151	Peoples Natural Gas Co.
40.	91	Plantation Pipe Line Co.
41.	93	Portland Pipe Line Corp.
42.	94	Producers Gas Equities Inc.
43.	95	Public Service Co. of Colorado
44.	101	Somerset Refinery Inc.
45.	102	Sonat Exploration Co.
46.	103	South Kentucky Purchasing Co.
47.	104	Southern Natural Gas Co.
48.	148	Southwestern Refining Co.

LIST OF RESPONDENTS (continued)

	KEY	COMPANY
49.	3	Tauber Oil Co.
50.	108	Tenneco Oil Co.
51.	109	Texaco Inc.
52	117	Union LP Gas System Inc.
53.	120	United Gas Pipe Line Co.
54*	123	Valero Energy Corp.
55.	125	Wexpro Co.
56.	204	Williams Natural Gas Co.
57.	127	Witco Chemical Corp.
58.	165	Young Refining Corp.

*NOTE: Data submitted, however it was not included in the report because it could not be separated as required.

A2575-174 10/89

Summary of Motor Vehicle Accidents in the Petroleum Industry for 1988

MAY 1989

American Petroleum Institute
1220 L Street, Northwest
Washington, D.C. 20005

Summary of Motor Vehicle Accidents in the Petroleum Industry for 1988

Safety and Fire Protection Department

MAY 1989

American
Petroleum
Institute

SUMMARY OF MOTOR VEHICLE ACCIDENTS
IN THE PETROLEUM INDUSTRY FOR 1988

The American Petroleum Institute's fifty-sixth annual survey of motor vehicle accidents in the petroleum industry represents the collective experience of 67 oil and gas companies. Although this number does not reflect the counting of subsidiaries individually since they were not reported separately, the reported data does include the experience of subsidiaries in most cases.

Table I shows that **67** companies operated **34,868** vehicles that traveled **736,800,000** miles and were involved in **2,211** accidents, indicating an average of **333,243** miles per vehicle accident in 1988.

Comparable figures for 1987 were: 22,751 vehicles, 517,894,000 miles traveled, 1,710 vehicle accidents, and an average of one vehicle accident per 302,862 miles traveled. Thus in 1988, the vehicle accident frequency rate was **3.00** per 1,000,000 vehicle miles, compared to 3.30 in 1987; a decrease of approximately **9%**.

NOTE: Total figures for **"ALL FUNCTIONS"** are greater than the sum of the corresponding figures for the individual functions because several companies did not provide figures for each function. Similarly, the totals for passenger vehicles, service vehicles, and product delivery trucks are greater than the sum of the corresponding figures for these three classes of vehicles because some company forms did not provide separate figures for each vehicle class. **Company participation in the API annual motor vehicle accident survey is voluntary and fluctuates from year to year.**

Additional copies of this survey may be obtained by contacting the API Publications & Distribution Section at (202) 682-8375.

TABLE I - PETROLEUM INDUSTRY - MOTOR VEHICLE ACCIDENTS PER 1,000,000 MILES

THE NUMBER OF VEHICLE MILES TRAVELED BY DEPARTMENT FOR 1988

			PASSENGER VEHICLES REPORTED SEPARATELY			SERVICE VEHICLES REPORTED SEPARATELY				PROD. DELIVERY TRUCKS REPORTED SEPARATELY				COMBINATION OF ALL VEHICLES REPORTED		
Year	No. of Cos.	No. of Pass Veh	No. of Vehicle Miles Traveled (Thous)	No. of Acci- dents	No. of Accidents Per One Million Vehicle Miles	No. of Serv. Veh.	No. of Vehicle Miles Traveled (Thous)	No. of Acci- dents	No. of Accidents Per One Million Vehicle Miles	No. Prod. Deliv. Trucks	No. of Vehicle Miles Traveled (Thous)	No. of Acci- dents	No. of Accidents Per One Million Vehicle Miles	No. of All	No. of Vehicle Miles Traveled (Thous)	No. of Acci- dents	No. of Accidents Per One Million Vehicle Miles
									TOTAL								
1988	67	16,527	310,351	759	2.45	14,146	231,425	881	3.81	4,195	195,024	571	2.93	34,868	736,800	2,211	3.00
1987	48	11,898	243,477	665	2.73	7,390	114,372	501	4.38	3,463	160,045	544	3.40	22,751	517,894	1,710	3.30
1986	47	20,607	343,014	1,217	3.55	7,519	121,015	475	3.93	2,937	160,382	621	3.87	30,431	684,813	2,266	3.31
1985	86	20,138	335,736	1,413	4.21	7,901	117,562	539	4.58	10,723	255,892	1,422	5.56	55,890	1,055,542	4,684	4.44
									EXPLORATION								
1988	6	309	3,503	8	2.28	0	0	0	N/A	32	165	0	0.00	341	3,668	8	2.18
1987	7	172	2,127	6	2.82	4	41	0	0.00	0	0	0	N/A	176	2,168	6	2.77
1986	10	668	12,374	38	3.07	30	412	0	0.00	117	2,613	8	3.06	815	15,399	46	2.99
1985	11	649	9,952	46	4.62	145	980	5	5.10	57	851	4	4.70	1,216	18,299	62	3.39
									PRODUCTION								
1988	12	6,604	102,232	223	2.18	1,692	26,313	63	2.39	415	21,682	21	0.97	8,711	150,227	307	2.04
1987	13	4,430	82,962	231	2.78	1,046	17,381	29	1.67	575	7,564	25	3.31	6,051	107,907	285	2.64
1986	12	8,081	126,582	414	3.27	1,541	29,020	67	2.31	9	159	3	18.85	8,935	155,762	484	3.11
1985	21	5,810	105,598	305	2.89	2,694	39,398	157	3.98	1,006	29,515	96	3.25	13,235	250,230	763	3.05
									EXPLORATION AND PRODUCTION-NOT SEPARATED[1]								
1988	8	2,430	50,181	112	2.23	999	20,435	91	4.45	0	0	0	N/A	3,429	70,616	203	2.87
1987	6	1,035	19,466	67	3.44	180	3,125	10	3.20	99	1,094	1	0.91	1,314	23,685	78	3.29
1986	5	13	289	1	3.47	0	0	0	N/A	0	0	0	N/A	13	289	1	3.47
1985	11	4,934	86,742	349	4.02	487	8,444	37	4.38	801	11,691	61	5.22	9,944	168,864	595	3.52
									E&P SUBTOTAL								
1988	22	9,343	155,916	343	2.20	2,691	46,748	154	3.29	447	21,847	21	0.96	12,481	224,511	518	2.31
1987	20	5,637	104,555	304	2.91	1,230	20,547	39	1.90	674	8,658	26	3.00	7,541	133,760	369	2.76
1986	4	1,171	18,509	46	2.49	932	22,535	34	1.51	33	405	0	0.00	2,136	41,449	80	1.93
1985	0	0	0	0	N/A	0	0	0	N/A	0	0	0	N/A	0	0	0	N/A
									GAS PROCESSING								
1988	12	829	15,146	36	2.38	25	354	1	2.82	0	0	0	N/A	854	15,500	37	2.39
1987	14	748	13,736	26	1.89	63	857	0	0.00	0	0	0	N/A	811	14,593	26	1.78
1986	12	835	15,482	38	2.45	182	2,455	6	2.44	0	0	0	N/A	1,017	17,937	44	2.45
1985	14	216	2,516	11	4.37	232	1,469	7	4.77	98	183	15	81.82	1,050	14,356	54	3.76
									MARKETING-WHOLESALE								
1988	12	1,762	45,332	106	2.34	175	2,578	12	4.65	1,895	89,430	305	3.41	3,832	137,340	423	3.08
1987	11	2,043	54,571	157	2.88	281	4,681	26	5.55	902	67,213	339	5.04	3,226	126,465	522	4.13
1986	7	3,052	65,331	229	3.51	122	2,147	15	6.99	1,425	117,720	495	4.20	4,599	185,198	739	3.99
1985	21	3,027	67,065	292	4.35	196	1,803	15	8.32	1,919	95,674	678	7.09	8,057	264,332	1,435	5.43
									MARKETING-RETAIL								
1988	5	364	8,347	19	2.28	217	2,070	31	14.98	28	912	4	4.39	609	11,329	54	4.77
1987	7	234	4,665	15	3.22	788	9,920	75	7.56	766	9,986	73	7.31	1,788	24,571	163	6.63
1986	6	388	8,786	28	3.19	151	1,080	9	8.33	37	2,173	10	4.60	576	12,039	47	3.90
1985	13	333	5,140	53	10.31	729	9,262	83	8.96	943	9,583	117	12.21	3,531	45,015	463	10.29

TABLE I - PETROLEUM INDUSTRY - MOTOR VEHICLE ACCIDENTS PER 1,000,000 MILES

THE NUMBER OF VEHICLE MILES TRAVELED BY DEPARTMENT FOR 1988

Year	No. of Cos.	No. of Pass Veh	PASSENGER VEHICLES REPORTED SEPARATELY: No. of Vehicle Miles Traveled (Thous)	No. of Accidents	No. of Accidents Per One Million Vehicle Miles	No. of Serv. Veh.	SERVICE VEHICLES REPORTED SEPARATELY: No. of Vehicle Miles Traveled (Thous)	No. of Accidents	No. of Accidents Per One Million Vehicle Miles	No. Prod. Deliv. Trucks	PROD. DELIVERY TRUCKS REPORTED SEPARATELY: No. of Vehicle Miles Traveled (Thous)	No. of Accidents	No. of Accidents Per One Million Vehicle Miles	No. of All	COMBINATION OF ALL VEHICLES REPORTED: No. of Vehicle Miles Traveled (Thous)	No. of Accidents	No. of Accidents Per One Million Vehicle Miles
MARKETING-NOT SEPARATED[2]																	
1988	2	282	6,907	12	1.74	245	6,337	13	2.05	424	15,786	140	8.87	951	29,030	165	5.68
1987	2	11	286	1	3.50	0	0	0	N/A	6	125	1	8.00	17	411	2	4.87
1986	5	211	3,623	17	4.69	8	48	0	0.00	0	0	0	N/A	12	111	0	0.00
1985	2	929	22,406	70	3.12	0	0	0	N/A	408	18,865	104	5.51	1,337	41,271	174	4.22
MARKETING-SUBTOTAL																	
1988	17	2,408	60,586	137	2.26	637	10,985	56	5.10	2,347	106,128	449	4.23	5,392	177,699	642	3.61
1987	15	2,288	59,522	173	2.91	1,069	14,601	101	6.92	1,674	77,324	413	5.34	5,031	151,447	687	4.54
1986	2	1,178	32,330	105	3.25	273	3,227	24	7.44	467	40,554	222	5.47	1,918	76,111	351	4.61
1985	0	0	0	0	N/A	0	0	0	N/A	0	0	0	N/A	0	0	0	N/A
PIPELINE-LIQUID																	
1988	17	841	17,406	14	0.80	2,000	37,691	87	2.31	624	2,918	11	3.77	3,465	58,015	112	1.93
1987	6	170	2,254	2	0.89	148	2,274	9	3.96	56	3,358	9	2.68	374	7,886	20	2.54
1986	15	1,138	34,821	92	2.64	1,300	27,371	88	3.22	382	21,777	41	1.88	2,820	83,968	221	2.63
1985	22	1,519	31,186	87	2.79	991	21,397	51	2.38	1,105	33,117	121	3.65	4,429	103,153	323	3.13
PIPELINE-GAS																	
1988	18	2,064	33,725	141	4.18	8,094	124,599	535	4.29	0	0	0	N/A	10,158	158,324	676	4.27
1987	14	1,649	25,981	87	3.35	4,733	74,263	346	4.66	0	0	0	N/A	6,382	100,244	433	4.32
1986	14	1,962	32,839	110	3.35	3,683	52,986	268	5.06	895	15,277	55	3.60	6,540	101,102	433	4.28
1985	19	2,006	30,680	146	4.76	1,405	21,116	95	4.50	3,896	66,042	267	4.04	9,507	159,467	630	3.95
PIPELINE-NOT SEPARATED[3]																	
1988	5	1,042	27,572	88	3.19	699	11,048	48	4.34	777	64,131	90	1.40	2,518	102,751	226	2.20
1987	5	1,406	37,429	73	1.95	147	1,830	6	3.28	1,059	70,705	96	1.36	2,612	109,964	175	1.59
1986	7	667	14,974	33	2.20	3	37	0	0.00	0	0	0	N/A	1,258	27,823	83	2.98
1985	4	130	69	5	72.62	65	365	8	21.91	186	922	11	11.93	419	7,665	34	4.44
PIPELINE-SUBTOTAL																	
1988	39	3,947	78,703	243	3.09	10,793	173,338	670	3.87	1,401	67,049	101	1.51	16,141	319,090	1,014	3.18
1987	24	3,225	65,664	162	2.47	5,028	78,367	361	4.61	1,115	74,063	105	1.42	9,368	218,094	628	2.88
1986	3	423	12,239	24	1.96	69	1,910	5	2.62	337	17,683	34	1.92	829	31,832	63	1.98
1985	0	0	0	0	N/A	0	0	0	N/A	0	0	0	N/A	0	0	0	N/A

[1]Exploration and Production data unable to be separated into Exploration or Production functions.
[2]Marketing data unable to be separated into Wholesale or Retail functions.
[3]Pipeline data unable to be separated into Liquid or Gas functions..

N/A - Function Not Applicable.

TABLE I - PETROLEUM INDUSTRY - MOTOR VEHICLE ACCIDENTS PER 1,000,000 MILES

THE NUMBER OF VEHICLE MILES TRAVELED BY DEPARTMENT FOR 1988

		PASSENGER VEHICLES REPORTED SEPARATELY			SERVICE VEHICLES REPORTED SEPARATELY				PROD. DELIVERY TRUCKS REPORTED SEPARATELY				COMBINATION OF ALL VEHICLES REPORTED			
Year	No. of Cos.	No. of Pass Veh	No. of Vehicle Miles Traveled (Thous)	No. of Acci-dents	No. of Accidents Per One Million Vehicle Miles	No. of Serv. Veh.	No. of Vehicle Miles Traveled (Thous)	No. of Acci-dents	No. of Accidents Per One Million Vehicle Miles	No. Prod. Deliv. Trucks	No. of Vehicle Miles Traveled (Thous)	No. of Acci-dents	No. of Accidents Per One Million Vehicle Miles	No. of All	No. of Vehicle Miles Traveled (Thous)	No. of Acci-dents	No. of Accidents Per One Million Vehicle Miles
							ALL FUNCTIONS										
Total	67	16,527	310,351	759	2.45	14,146	231,425	881	3.81	4,195	195,024	571	2.93	34,868	736,800	2,211	3.00
00001						4	39	0	0.00					4	39	0	0.00
00002		5	115	0	0.00					5	134	0	0.00	10	249	0	0.00
00003		2	20	0	0.00									2	20	0	0.00
00005		782	17,153	41	2.39	455	8,812	25	2.84					1,237	25,965	66	2.54
00013		1,003	27,373	32	1.17					263	11,981	43	3.59	1,266	39,354	75	1.91
00017		87	1,559	4	2.57	171	2,633	16	6.08					258	4,192	20	4.77
00019		211	3,956	5	1.26									211	3,956	5	1.26
00020										5	133	0	0.00	5	133	0	0.00
00022		16	235	1	4.26									16	235	1	4.26
00026		4	95	0	0.00	3	15	0	0.00					7	110	0	0.00
00027		833	17,027	50	2.94	63	835	1	1.20					896	17,862	51	2.86
00029		12	250	1	4.00	270	5,400	3	0.56					282	5,650	4	0.71
00030		108	1,963	11	5.60	432	7,852	27	3.44					540	9,815	38	3.87
00031		463	7,685	24	3.12	1,158	19,212	123	6.40					1,621	26,897	147	5.47
00032		1,316	29,418	42	1.43					470	44,590	65	1.46	1,786	74,008	107	1.45
00033		1	7	0	0.00	9	32	0	0.00					10	39	0	0.00
00034		9	162	0	0.00	4	20	0	0.00	566	0	0		579	182	0	0.00
00035		97	1,570	5	3.18	104	1,977	9	4.55					201	3,547	14	3.95
00037						1,286	20,107	44	2.19					1,286	20,107	44	2.19
00041		1,254	25,092	64	2.55	1,200	21,006	55	2.62	240	25,978	124	4.77	2,694	72,076	243	3.37
00044		7	175	0	0.00	22	330	2	6.06	16	989	6	6.07	45	1,494	8	5.35
00048		4	80	0	0.00	7	129	0	0.00					11	209	0	0.00
00054		204	2,398	3	1.25	814	9,590	66	6.88					1,018	11,988	69	5.76
00055		15		0		28		0						43		0	
00056		270	4,000	15	3.75	1,526	19,000	82	4.32					1,796	23,000	97	4.22
00057		1	11	0	0.00	3	18	0	0.00					4	29	0	0.00
00060		22	140	3	21.43	157	2,116	11	5.20					179	2,256	14	6.21
00071		45	1,000	5	5.00	200	2,000	30	15.00					245	3,000	35	11.67
00074		127	1,671	9	5.39	132	1,833	2	1.09					259	3,504	11	3.14
00077		2	23	0	0.00	3	16	0	0.00					5	39	0	0.00
00083		11	246	1	4.07	34	781	3	3.84	37	1,854	5	2.70	82	2,881	9	3.12
00086		6	124	0	0.00	20	510	0	0.00					26	634	0	0.00
00091		131	1,313	6	4.57	85	1,309	4	3.06					216	2,622	10	3.81
00092		3	44	0	0.00	23	430	3	6.98					26	474	3	6.33

TABLE I - PETROLEUM INDUSTRY - MOTOR VEHICLE ACCIDENTS PER 1,000,000 MILES

THE NUMBER OF VEHICLE MILES TRAVELED BY DEPARTMENT FOR 1988

		PASSENGER VEHICLES REPORTED SEPARATELY			SERVICE VEHICLES REPORTED SEPARATELY				PROD. DELIVERY TRUCKS REPORTED SEPARATELY				COMBINATION OF ALL VEHICLES REPORTED			
Year	No. of Cos.	No. of Pass Veh	No. of Vehicle Miles Traveled (Thous)	No. of Acci-dents	No. of Accidents Per One Million Vehicle Miles	No. of Serv. Veh.	No. of Vehicle Miles Traveled (Thous)	No. of Acci-dents	No. of Accidents Per One Million Vehicle Miles	No. Prod. Deliv. Trucks	No. of Vehicle Miles Traveled (Thous)	No. of Acci-dents	No. of Accidents Per One Million Vehicle Miles	No. of All	No. of Vehicle Miles Traveled (Thous)	No. of Acci-dents	No. of Accidents Per One Million Vehicle Miles
ALL FUNCTIONS (continued)																	
00094		1	35	0	0.00	8	130	1	7.69					9	165	1	6.06
00095						113	1,806	9	4.98					113	1,806	9	4.98
00097		7	311	0	0.00	6	175	0	0.00	10	540	0	0.00	23	1,026	0	0.00
00101		2	150	0	0.00	3	61	0	0.00	22	1,874	2	1.07	27	2,085	2	0.96
00102		61	1,220	3	2.46									61	1,220	3	2.46
00103		1	100	0	0.00	6	360	1	2.78	15	1,058	6	5.67	22	1,518	7	4.61
00106		3,160	37,925	65	1.71	539	10,062	24	2.39	1,210	31,856	80	2.51	4,909	79,843	169	2.12
00107		356	8,093	14	1.73	554	12,221	40	3.27	424	15,786	140	8.87	1,334	36,100	194	5.37
00109		4,449	92,076	258	2.80	544	5,691	13	2.28	512	37,242	79	2.12	5,505	135,009	350	2.59
00111						244	3,970	16	4.03					244	3,970	16	4.03
00114						448	6,091	29	4.76					448	6,091	29	4.76
00120		102	1,536	2	1.30	513	9,404	24	2.55					615	10,940	26	2.38
00122		99	1,473	5	3.39					400	21,009	21	1.00	499	22,482	26	1.16
00125						86	1,427	5	3.50					86	1,427	5	3.50
00126		19	245	3	12.24	233	3,048	10	3.28					252	3,293	13	3.95
00131						852	15,605	86	5.51					852	15,605	86	5.51
00138		10	322	1	3.11	12	178	1	5.62					22	500	2	4.00
00143						3	50	0	0.00					3	50	0	0.00
00144		197	3,000	1	0.33	512	11,538	15	1.30					709	14,538	16	1.10
00146						460	6,000	25	4.17					460	6,000	25	4.17
00162		596	9,606	69	7.18									596	9,606	69	7.18
00164		18	223	0	0.00	28	653	2	3.06					46	876	2	2.28
00181						12	80	1	12.50					12	80	1	12.50
00182						2	20	0	0.00					2	20	0	0.00
00191		200	4,186	8	1.91									200	4,186	8	1.91
00193		3	53	1	18.87	7	156	0	0.00					10	209	1	4.78
00196						17	70	1	14.29					17	70	1	14.29
00201		28	726	2	2.75	3	96	1	10.42					31	822	3	3.65
00204		40	876	2	2.28	354	7,881	16	2.03					394	8,757	18	2.06
00205		122	3,213	3	0.93									122	3,213	3	0.93
00211		2	41	0	0.00	14	204	0	0.00					16	245	0	0.00
00215						360	8,446	55	6.51					360	8,446	55	6.51
00216		3	36	0	0.00									3	36	0	0.00
EXPLORATION																	
Total	6	309	3,503	8	2.28	0	0	0	N/A	32	165	0	0.00	341	3,668	8	2.18
00013		146	1,666	6	3.60				N/A	32	165	0	0.00	178	1,831	6	3.28
00022		16	235	1	4.26				N/A					16	235	1	4.26

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		PASSENGER VEHICLES REPORTED SEPARATELY				SERVICE VEHICLES REPORTED SEPARATELY				PROD. DELIVERY TRUCKS REPORTED SEPARATELY				COMBINATION OF ALL VEHICLES REPORTED			
Year	No. of Cos.	No. of Pass Veh	No. of Vehicle Miles Traveled (Thous)	No. of Acci-dents	No. of Accidents Per One Million Vehicle Miles	No. of Serv. Veh.	No. of Vehicle Miles Traveled (Thous)	No. of Acci-dents	No. of Accidents Per One Million Vehicle Miles	No. Prod. Deliv. Trucks	No. of Vehicle Miles Traveled (Thous)	No. of Acci-dents	No. of Accidents Per One Million Vehicle Miles	No. of All	No. of Vehicle Miles Traveled (Thous)	No. of Acci-dents	No. of Accidents Per One Million Vehicle Miles
EXPLORATION (continued)																	
00041		41	305	0	0.00				N/A					41	305	0	0.00
00106		76	916	0	0.00				N/A					76	916	0	0.00
00109		23	303	1	3.30				N/A					23	303	1	3.30
00191		7	78	0	0.00				N/A					7	78	0	0.00
PRODUCTION																	
Total	12	6,604	102,232	223	2.18	1,692	26,313	63	2.39	415	21,682	21	0.97	8,711	150,227	307	2.04
00020										5	133	0	0.00	5	133	0	0.00
00041		619	10,593	27	2.55	1,048	18,919	45	2.38					1,667	29,512	72	2.44
00048		3	63	0	0.00	6	102	0	0.00					9	165	0	0.00
00097		2	61	0	0.00	6	175	0	0.00	10	540	0	0.00	18	776	0	0.00
00102		61	1,220	3	2.46									61	1,220	3	2.46
00106		3,084	37,009	65	1.76									3,084	37,009	65	1.76
00109		2,650	49,302	121	2.45	543	5,689	13	2.29					3,193	54,991	134	2.44
00122										400	21,009	21	1.00	400	21,009	21	1.00
00125						74	1,200	4	3.33					74	1,200	4	3.33
00138						12	178	1	5.62					12	178	1	5.62
00143						3	50	0	0.00					3	50	0	0.00
00191		185	3,984	7	1.76									185	3,984	7	1.76
EXPLORATION AND PRODUCTION-NOT SEPARATED[1]																	
Total	8	2,430	50,181	112	2.23	999	20,435	91	4.45	0	0	0	N/A	3,429	70,616	203	2.87
00005		782	17,153	41	2.39	455	8,812	25	2.84				N/A	1,237	25,965	66	2.54
00019		211	3,956	5	1.26								N/A	211	3,956	5	1.26
00027		559	12,544	37	2.95	63	835	1	1.20				N/A	622	13,379	38	2.84
00032		778	14,905	23	1.54								N/A	778	14,905	23	1.54
00035		97	1,570	5	3.18	104	1,977	9	4.55				N/A	201	3,547	14	3.95
00095						10	209	1	4.78				N/A	10	209	1	4.78
00193		3	53	1	18.87	7	156	0	0.00				N/A	10	209	1	4.78
00215						360	8,446	55	6.51				N/A	360	8,446	55	6.51
GAS PROCESSING																	
Total	12	829	15,146	36	2.38	25	354	1	2.82	0	0	0	N/A	854	15,500	37	2.39
00001						4	39	0	0.00				N/A	4	39	0	0.00
00027		274	4,483	13	2.90								N/A	274	4,483	13	2.90
00032		154	3,449	2	0.58								N/A	154	3,449	2	0.58
00048		1	17	0	0.00	1	27	0	0.00				N/A	2	44	0	0.00
00057		1	11	0	0.00	3	18	0	0.00				N/A	4	29	0	0.00
00077		2	23	0	0.00	3	16	0	0.00				N/A	5	39	0	0.00
00101						1	25	0	0.00				N/A	1	25	0	0.00

TABLE I - PETROLEUM INDUSTRY - MOTOR VEHICLE ACCIDENTS PER 1,000,000 MILES

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		PASSENGER VEHICLES REPORTED SEPARATELY			SERVICE VEHICLES REPORTED SEPARATELY				PROD. DELIVERY TRUCKS REPORTED SEPARATELY				COMBINATION OF ALL VEHICLES REPORTED			
Year	No. of Cos.	No. of Pass Veh	No. of Vehicle Miles Traveled (Thous)	No. of Acci-dents	No. of Accidents Per One Million Vehicle Miles	No. of Serv. Veh.	No. of Vehicle Miles Traveled (Thous)	No. of Acci-dents	No. of Accidents Per One Million Vehicle Miles	No. Prod. Deliv. Trucks	No. of Vehicle Miles Traveled (Thous)	No. of Acci-dents	No. of Accidents Per One Million Vehicle Miles	No. of All	No. of Vehicle Miles Traveled (Thous)	No. of Acci-dents	No. of Accidents Per One Million Vehicle Miles
GAS PROCESSING (continued)																	
00109		291	5,559	15	2.70	1	2	0	0.00				N/A	292	5,561	15	2.70
00122		99	1,473	5	3.39								N/A	99	1,473	5	3.39
00125						12	227	1	4.41				N/A	12	227	1	4.41
00191		5	76	1	13.16								N/A	5	76	1	13.16
00201		2	55	0	0.00								N/A	2	55	0	0.00
MARKETING-WHOLESALE																	
Total	12	1,762	45,332	106	2.34	175	2,578	12	4.65	1,895	89,430	305	3.41	3,832	137,340	423	3.08
00003		2	20	0	0.00									2	20	0	0.00
00013		334	10,140	13	1.28					203	10,963	39	3.56	537	21,103	52	2.46
00026		4	95	0	0.00	3	15	0	0.00					7	110	0	0.00
00032		36	875	1	1.14									36	875	1	1.14
00041		594	14,194	37	2.61	152	2,087	10	4.79	240	25,978	124	4.77	986	42,259	171	4.05
00097		5	250	0	0.00									5	250	0	0.00
00101		2	150	0	0.00	2	36	0	0.00	22	1,874	2	1.07	26	2,060	2	0.97
00103		1	100	0	0.00	6	360	1	2.78	15	1,058	6	5.67	22	1,518	7	4.61
00106										1,210	31,856	80	2.51	1,210	31,856	80	2.51
00109		774	19,186	54	2.81					205	17,701	54	3.05	979	36,887	108	2.93
00138		10	322	1	3.11									10	322	1	3.11
00181						12	80	1	12.50					12	80	1	12.50
MARKETING-RETAIL																	
Total	5	364	8,347	19	2.28	217	2,070	31	14.98	28	912	4	4.39	609	11,329	54	4.77
00002		5	115	0	0.00					5	134	0	0.00	10	249	0	0.00
00013		179	5,270	11	2.09					23	778	4	5.14	202	6,048	15	2.48
00032		135	1,962	3	1.53									135	1,962	3	1.53
00071		45	1,000	5	5.00	200	2,000	30	15.00					245	3,000	35	11.67
00196						17	70	1	14.29					17	70	1	14.29
MARKETING-NOT SEPARATED[2]																	
Total	2	282	6,907	12	1.74	245	6,337	13	2.05	424	15,786	140	8.87	951	29,030	165	5.68
00107		279	6,859	12	1.75	245	6,337	13	2.05	424	15,786	140	8.87	948	28,982	165	5.69
00191		3	48	0	0.00									3	48	0	0.00
PIPELINE-LIQUID																	
Total	17	841	17,406	14	0.80	2,000	37,691	87	2.31	624	2,918	11	3.77	3,465	58,015	112	1.93
00013		344	10,297	2	0.19					5	75	0	0.00	349	10,372	2	0.19
00017		87	1,559	4	2.57	171	2,633	16	6.08					258	4,192	20	4.77
00029		12	250	1	4.00	270	5,400	3	0.56					282	5,650	4	0.71
00033		1	7	0	0.00	9	32	0	0.00					10	39	0	0.00
00034		9	162	0	0.00	4	20	0	0.00	566	0	0		579	182	0	0.00

TABLE I - PETROLEUM INDUSTRY - MOTOR VEHICLE ACCIDENTS PER 1,000,000 MILES

THE NUMBER OF VEHICLE MILES TRAVELED BY DEPARTMENT FOR 1988

Year	No. of Cos.	PASSENGER VEHICLES REPORTED SEPARATELY				SERVICE VEHICLES REPORTED SEPARATELY				PROD. DELIVERY TRUCKS REPORTED SEPARATELY				COMBINATION OF ALL VEHICLES REPORTED			
		No. of Pass Veh	No. of Vehicle Miles Traveled (Thous)	No. of Acci-dents	No. of Accidents Per One Million Vehicle Miles	No. of Serv. Veh.	No. of Vehicle Miles Traveled (Thous)	No. of Acci-dents	No. of Accidents Per One Million Vehicle Miles	No. Prod. Deliv. Trucks	No. of Vehicle Miles Traveled (Thous)	No. of Acci-dents	No. of Accidents Per One Million Vehicle Miles	No. of All	No. of Vehicle Miles Traveled (Thous)	No. of Acci-dents	No. of Accidents Per One Million Vehicle Miles
PIPELINE-LIQUID (continued)																	
00044		7	175	0	0.00	22	330	2	6.06	16	989	6	6.07	45	1,494	8	5.35
00055		15		0		28		0						43		0	
00083		9	211	0	0.00	29	580	2	3.45	37	1,854	5	2.70	75	2,645	7	2.65
00086		6	124	0	0.00	20	510	0	0.00					26	634	0	0.00
00091		131	1,313	6	4.57	85	1,309	4	3.06					216	2,622	10	3.81
00092		3	44	0	0.00	23	430	3	6.98					26	474	3	6.33
00106						539	10,062	24	2.39					539	10,062	24	2.39
00111						244	3,970	16	4.03					244	3,970	16	4.03
00144		197	3,000	1	0.33	512	11,538	15	1.30					709	14,538	16	1.10
00164		18	223	0	0.00	28	653	2	3.06					46	876	2	2.28
00182						2	20	0	0.00					2	20	0	0.00
00211		2	41	0	0.00	14	204	0	0.00					16	245	0	0.00
PIPELINE-GAS																	
Total	18	2,064	33,725	141	4.18	8,094	124,599	535	4.29	0	0	0	N/A	10,158	158,324	676	4.27
00030		108	1,963	11	5.60	432	7,852	27	3.44				N/A	540	9,815	38	3.87
00031		463	7,685	24	3.12	1,158	19,212	123	6.40				N/A	1,621	26,897	147	5.47
00037						1,286	20,107	44	2.19				N/A	1,286	20,107	44	2.19
00054		204	2,398	3	1.25	814	9,590	66	6.88				N/A	1,018	11,988	69	5.76
00056		270	4,000	15	3.75	1,526	19,000	82	4.32				N/A	1,796	23,000	97	4.22
00074		127	1,671	9	5.39	132	1,833	2	1.09				N/A	259	3,504	11	3.14
00083		2	35	1	28.57	5	201	1	4.98				N/A	7	236	2	8.47
00094		1	35	0	0.00	8	130	1	7.69				N/A	9	165	1	6.06
00095						103	1,597	8	5.01				N/A	103	1,597	8	5.01
00114						448	6,091	29	4.76				N/A	448	6,091	29	4.76
00120		102	1,536	2	1.30	513	9,404	24	2.55				N/A	615	10,940	26	2.38
00131						852	15,605	86	5.51				N/A	852	15,605	86	5.51
00146						460	6,000	25	4.17				N/A	460	6,000	25	4.17
00162		596	9,606	69	7.18								N/A	596	9,606	69	7.18
00201		26	671	2	2.98	3	96	1	10.42				N/A	29	767	3	3.91
00204		40	876	2	2.28	354	7,881	16	2.03				N/A	394	8,757	18	2.06
00205		122	3,213	3	0.93								N/A	122	3,213	3	0.93
00216		3	36	0	0.00								N/A	3	36	0	0.00
PIPELINE-NOT SEPARATED[3]																	
Total	5	1,042	27,572	88	3.19	699	11,048	48	4.34	777	64,131	90	1.40	2,518	102,751	226	2.20
00032		213	8,227	13	1.58					470	44,590	65	1.46	683	52,817	78	1.48
00060		22	140	3	21.43	157	2,116	11	5.20					179	2,256	14	6.21
00107		77	1,234	2	1.62	309	5,884	27	4.59					386	7,118	29	4.07

TABLE I - PETROLEUM INDUSTRY - MOTOR VEHICLE ACCIDENTS PER 1,000,000 MILES

THE NUMBER OF VEHICLE MILES TRAVELED BY DEPARTMENT FOR 1988

		PASSENGER VEHICLES REPORTED SEPARATELY			SERVICE VEHICLES REPORTED SEPARATELY			PROD. DELIVERY TRUCKS REPORTED SEPARATELY			COMBINATION OF ALL VEHICLES REPORTED		
Year	No. of Cos.	No. of Pass Veh	No. of Vehicle Miles Traveled (Thous)	No. of Acci- dents	No. of Accidents Per One Million Vehicle Miles	No. of Serv. Veh.	No. of Vehicle Miles Traveled (Thous)	No. of Acci- dents	No. of Accidents Per One Million Vehicle Miles	No. Prod. Deliv. Trucks	No. of Vehicle Miles Traveled (Thous)	No. of Acci- dents	No. of Accidents Per One Million Vehicle Miles	No. of All	No. of Vehicle Miles Traveled (Thous)	No. of Acci- dents	No. of Accidents Per One Million Vehicle Miles
							PIPELINE-NOT SEPARATED (continued)										
00109	711	17,726	67	3.78						307	19,541	25	1.28	1,018	37,267	92	2.47
00126	19	245	3	12.24	233	3,048	10	3.28						252	3,293	13	3.95

LIST OF RESPONDENTS - 1988

	Key	Name
1.	00106	AMOCO OIL CORP.
2.	00013	ASHLAND OIL, INC.
3.	00191	BHP PETROLEUM (A)
4.	00015	BP NORTH AMERICA PETROLEUM INC.
5.	00017	BUCKEYE PIPE LINE CO.
6.	00019	CABOT CORP.
7.	00020	CALCASIEU REFINING CO.
8.	00022	CELSIUS ENERGY CO.
9.	00211	CHASE TRANSPORTATION CO.
10.	00026	CIBRO PETROLEUM PRODUCTS, INC.
11.	00029	COLONIAL PIPELINE CO.
12.	00030	COLORADO INTERSTATE GAS CO.
13.	00031	COLUMBIA GAS TRANSMISSION CORP.
14.	00032	CONOCO INC.
15.	00033	COOK INLET PIPE LINE CO.
16.	00195	CROSS OIL & REFINING CO.
17.	00196	D.J. WITMAN
18.	00182	E.I.L. PETROLEUM INC.
19.	00037	EL PASO NATURAL GAS CO.
20.	00001	ENERFIN GAS PROCESSING CORP.
21.	00205	ENOGEX INC.
22.	00122	ENRON LIQUID FUELS CO.
23.	00035	ENSERCH EXPLORATION, INC.
24.	00143	EQUITY OIL CO.
25.	00044	EUREKA PIPE LINE CO.
26.	00041	EXXON COMPANY U.S.A.
27.	00193	FUEL RESOURCES DEVELOPMENT
28.	00048	HEWIT & DOUGHERTY
29.	00056	KPL GAS SERVICE
30.	00057	KENTUCKY HYDROCARBON
31.	00054	KN ENERGY INC.
32.	00060	LAKEHEAD PIPE LINE CO. INC.
33.	00201	LLANO INC.
34.	00215	MERIDIAN OIL CO.
35.	00071	MISSISSIPPI VALLEY GAS CO.
36.	00144	MOBIL PIPE LINE CO.
37	00077	NATIONAL HELIUM CORP.
38.	00146	NORTHWEST PIPELINE CORP.
39.	00083	OHIO OIL GATHERING CORP.
40.	00086	OLYMPIC PIPE LINE CO.

41.	00027	OXY USA INC.
42.	00131	PANHANDLE EASTERN PIPE LINE CO.
43.	00091	PLANTATION PIPE LINE CO.
44.	00092	PORTAL PIPE LINE CO.
45.	00094	PRODUCERS GAS EQUITIES, INC.
46.	00095	PUBLIC SERVICE CO. OF COLORADO
47.	00074	QUESTAR PIPE LINE CO.
48.	00097	ROCK ISLAND REFINING CORP.
49.	00101	SOMERSET REFINERY INC.
50.	00102	SONAT EXPLORATION CO.
51.	00103	SOUTH KENTUCKY PURCHASING CO.
52.	00138	SOUTHLAND OIL CO.
53.	00107	SUN COMPANY, INC.
54.	00005	SUN EXPLORATION & PRODUCTION CO.
55.	00003	TAUBER OIL CO.
56.	00026	TECO PIPE LINE CO.
57.	00009	TEXACO INC.
58.	00111	TEXAS EASTERN PRODUCTS & PIPE LINE CO.
59.	00162	TEXAS GAS TRANSMISSION CORP.
60.	00181	THRIFTAWAY MARKETING CO.
61.	00114	TRUNKLINE GAS CO.
62.	00120	UNITED GAS PIPE LINE CO.
63.	00125	WEXPRO CO.
64.	00204	WILLIAMS NATURAL GAS CO.
65.	00126	WILLIAMS PIPE LINE CO.
66.	00127	WITCO CHEMICAL CORP.
67.	00164	WOLVERINE PIPE LINE CO.

Order No. 852 - 19990